



UvA-DARE (Digital Academic Repository)

INTEGRAL detects a new outburst from the NS LMXB SAX J1750.8-2900

Bozzo, E.; Kuulkers, E.; Paizis, A.; Bazzano, A.; Wijnands, R.; Kretschmar, P.; Sanchez-Fernandez, C.; Chenevez, J.; Del Santo, M.; Bodaghee, A.; Ducci, L.; Savchenko, V.; Ferrigno, C.

Published in:

The astronomer's telegram

[Link to publication](#)

Creative Commons License (see <https://creativecommons.org/use-remix/cc-licenses/>):

Unspecified

Citation for published version (APA):

Bozzo, E., Kuulkers, E., Paizis, A., Bazzano, A., Wijnands, R., Kretschmar, P., Sanchez-Fernandez, C., Chenevez, J., Del Santo, M., Bodaghee, A., Ducci, L., Savchenko, V., & Ferrigno, C. (2018). INTEGRAL detects a new outburst from the NS LMXB SAX J1750.8-2900. *The astronomer's telegram*, 2048. <http://www.astronomerstelegram.org/?read=12048>

General rights

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: <https://uba.uva.nl/en/contact>, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

UvA-DARE is a service provided by the library of the University of Amsterdam (<http://dare.uva.nl>)



Outside
 GCN
 IAUCs

Other
 ATel on [Twitter](#) and [Facebook](#)
[ATELstream](#)
[ATel Community Site](#)

[[Previous](#) | [Next](#) | [ADS](#)]

INTEGRAL detects a new outburst from the NS LMXB SAX J1750.8-2900

ATel #12048; *E. Bozzo (ISDC, Switzerland), E. Kuulkers (ESA/ESTEC, Netherlands), A. Paizis (INAF-IASF Milano, Italy), A. Bazzano (INAF-IAPS Rome, Italy), R. Wijnands (UVA, Netherlands), P. Kretschmar, C. Sanchez-Fernandez (ESA/ESAC, Spain), J. Chenevez (DTU, Denmark), M. Del Santo (INAF-IASF Palermo, Italy), A. Bodaghee (GCSU, USA), L. Ducci, V. Savchenko, C. Ferrigno (ISDC, Switzerland); on behalf of the INTEGRAL Galactic bulge monitoring team*

on 19 Sep 2018; 15:52 UT

Distributed as an Instant Email Notice Transients
 Credential Certification: *E. Bozzo (enrico.bozzo@unige.ch)*

Subjects: X-ray, Binary, Neutron Star, Transient

During the observations in the direction of the Galactic Bulge (ATel #438) carried out from 2018 September 18 at 11:55 to 15:36 (UTC), INTEGRAL detected renewed activity from the transient neutron star low mass X-ray binary (NS LMXB) SAX J1750.8-2900.

The source is detected in the IBIS/ISGRI mosaic at a flux of 23 \pm 3 mCrab in the 20-40 keV energy band and 29 \pm 4 mCrab in the 40-80 keV energy band. The source is also detected by the JEM-X telescopes. The estimated fluxes from the JEM-X mosaics are 20 \pm 3 mCrab in the 3-10 keV energy band and 16.0 \pm 9.5 mCrab in the 10-25 keV energy band.

A preliminary analysis of the IBIS/ISGRI spectrum revealed that the hard X-ray emission from the source could be characterized by a power-law model with a photon index of 3.5 \pm 1.2 (90% c.l.). The measured 20-100 keV flux from the spectral fit is 5E-10 erg/cm²/s (no spectral analysis of the JEM-X data has been carried out due to the calibration uncertainties affecting the near-real time data).

No type-I X-ray bursts were observed in the JEM-X lightcurves extracted with a time resolution of 2 s in the 3-20 keV energy band.

The most recent hard X-ray outburst from this source was announced in 2015 (ATel #8058).

Further INTEGRAL observations toward the direction of the source are already planned in the coming days. Multi-wavelength observations in other energy domains are also encouraged, as well as observations to characterize the source soft X-ray emission (< 3 keV).

Related	
12048	INTEGRAL detects a new outburst from the NS LMXB SAX J1750.8-2900
8189	Swift/XRT imaging finds no new transient near MAXI reported burst position
8058	INTEGRAL finds renewed X-ray activity of the Neutron star X-ray transient SAX J1750.8-2900
6991	MAXI/GSC detection of a new outburst from 4U 1630-472
5041	MAXI/GSC detection of an X-ray outburst probably from SAX J1747.0-2853 and Swift followup observation of the Galactic center region
3181	Swift/XRT confirms the INTEGRAL detection of a faint outburst from SAX J1750.8-2900
3172	INTEGRAL sees continuing activity from SAX J1747.0-2853, but not from SAX J1750.8-2900
3170	INTEGRAL/IBIS observations of the Galactic center region at the epoch of the short Fermi/LAT flare
3163	Swift/XRT detects SAX J1747.0-2853 (=MAXI J1745-288) in outburst
3162	Fermi LAT detection of an outburst from the Galactic center region

[**Telegram Index**]

R. E. Rutledge, Editor-in-Chief

rrutledge@astronomerstelegam.org

Derek Fox, Editor

dfox@astronomerstelegam.org

Mansi M. Kasliwal, Co-Editor

mansi@astronomerstelegam.org